

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US03/24358

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : H04J 3/06  
US CL : 370/350

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 370/310,345,350; 375/134,137,145,149,150; 455/139,147,196.1,208

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0043768 A1 (CHANG et al) 06 March 2003 (06.03.2003), figures 3, 8, 15 and paragraphs 0013, 0038, 0041-0042, 0044, 0047-0049, 0051, 0057-0059, 0064, 0077-0079	1-14
E	US 2003/0202564 A1 (HO et al) 30 October 2003 (30.10.2003), paragraphs 0009, 0013, 0049-0050.	1-14

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
*	Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search	Date of mailing of the international search report
07 January 2004 (07.01.2004)	05 FEB 2004
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230	Authorized officer <i>Huy Vu</i> Huy Vu Telephone No. (703) 305-3900

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**Continuation of B. FIELDS SEARCHED Item 3:**  
**EAST**  
search terms: PSCH, SSCH, clock, frequency offset, rotate